

**AMENDMENTS TO THE CLAIMS**

Claim 1 (Amended) A computerized process for generating ~~a~~an integrated project work breakdown structure (WBS) and related work flows, comprising the steps of:

- (a) selecting an existing project WBS, said existing project WBS having related work flows;
- (b) selecting at least one desired outcome for synthesis, said at least one selected desired outcome having a first associated work flow comprising a network of interdependent activities; and
- (c) ~~synthesizing~~integrating said first associated work flow with said existing project WBS and its related work flows by:
  - (c1) automatically identifying the most downstream activity in said first associated work flow;
  - (c2) automatically determining whether each activity in said first associated work flow is already present in the project WBS and related work flows being generated by starting with the most downstream activity in said first associated work flow and working upstream until all activities in said first associated work flow have been compared to the activities of the project WBS and related work flows being generated;
  - (c3) automatically adding any activity in said first associated work flow which is not already present in the project WBS and related work flows being generated;
  - (c4) automatically adding activity dependencies which should exist between any of said added activities and any activity already present in the project WBS and related work flows being generated; and
  - (c5) automatically introducing summary activities, when required, into the project WBS being generated when lowest-level activities from said first associated work flow are added.

Claim 2 (Amended) The process of claim 1, further comprising the steps of:

- (d) selecting at least one undesired outcome for ~~de-synthesis~~ reduction, said at least one selected undesired outcome having a second associated work flow comprising a network of interdependent activities; and
- (e) ~~de-synthesizing~~ reduction of said second associated work flow from the integrated project WBS and related work flows being generated by:
  - (e1) automatically identifying the most downstream activity in said second associated work flow;
  - (e2) automatically determining whether each activity in said second associated work flow is also part of the work flows associated with desired outcomes which are already present in the integrated project WBS and related work flows being generated by starting with the most downstream activity in said second associated work flow and working upstream until all activities in said second associated work flow have been evaluated;
  - (e3) automatically removing any activity and activity dependency which are not needed as part of the work flows associated with the remaining desired outcomes for the integrated project WBS and related work flows being generated; and
  - (e4) automatically removing summary activities, as appropriate, from the project WBS being generated as lowest-level activities from said second associated work flow are being removed.

Claims 3 - 11 (Canceled)

Claim 12 (Amended) A computerized process for generating a project work breakdown structure (WBS) and related work flows, comprising the steps of:

- (a) selecting a controlling WBS template for a project WBS;
- (b) selecting at least one desired outcome for synthesis, said at least one selected desired outcome having a first associated work flow comprising a network of interdependent activities; and

- (c) ~~synthesizing~~ integrating said first associated work flow with the project WBS and related work flows being generated according to said selected controlling WBS template by:
- (c<sub>1</sub>) automatically identifying the most downstream activity in said first associated work flow;
  - (c<sub>2</sub>) automatically determining whether each activity in said first associated work flow is already present in the project WBS and related work flows being generated by starting with the most downstream activity in said first associated work flow and working upstream until all activities in said first associated work flow have been compared to the activities of the project WBS and related work flows being generated;
  - (c<sub>3</sub>) automatically adding any activity in said first associated work flow which is not already present in the project WBS and related work flows being generated;
  - (c<sub>4</sub>) automatically adding any activity dependency which should exist between any of said added activities and any activity already present in the project WBS and related work flows being generated; and
  - (c<sub>5</sub>) automatically introducing summary activities, as appropriate, into the project WBS being generated when lowest-level activities from said first associated work flow are added.

Claim 13 (Amended) The process of claim 12, further comprising the steps of:

- (d) selecting at least one undesired outcome for ~~de-synthesis~~ reduction, said at least one selected undesired outcome having a second associated work flow comprising a network of interdependent activities; and
- (e) ~~de-synthesizing~~ reduction of said second associated work flow from the project WBS and related work flows being generated by:
  - (e<sub>1</sub>) automatically identifying the most downstream activity in said second associated work flow;
  - (e<sub>2</sub>) automatically determining whether each activity in said second associated work flow is also part of the work flows associated with desired outcomes

which are already present in the project WBS and related work flows being generated by starting with the most downstream activity in said second associated work flow and working upstream until all activities in said second associated work flow have been evaluated;

- (e3) automatically removing any activity and activity dependency which are not needed as part of the work flows associated with the remaining desired outcomes for the project WBS and related work flows being generated; and
- (e4) automatically removing summary activities, as appropriate, from the project WBS being generated by referencing said selected controlling WBS template as lowest-level activities from said second associated work flow are being removed.

Claims 14 – 16 (Canceled)

Claim 17 (new) The process of claim 1 further comprising the steps of maintaining a library of elementary activities and corresponding elementary activity dependencies, and using said library to determine whether any dependencies exist between an added activity and an existing activity.

Claim 18 (new) The process of claim 12 further comprising the steps of maintaining a library of elementary activities and corresponding elementary activity dependencies, and using said library to determine whether any dependencies exist between an added activity and an existing activity.